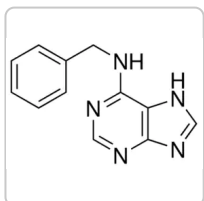


Type in Product Names, Product Numbers, or CAS Numbers to see suggestions.



[All Photos](#) (6)

#### Documents

[↓ SDS](#)

[🔍 COO/COA](#)

[📄 Specification Sheet](#)

[More Documents](#) »

**B3408** ▶ **Sigma-Aldrich®**

## 6-Benzylaminopurine

★★★★★ (0)

suitable for plant cell culture

#### Synonym(s):

6-BAP, BA, N<sup>6</sup>-Benzyladenine

#### Empirical Formula (Hill Notation):

C<sub>12</sub>H<sub>11</sub>N<sub>5</sub>

CAS Number: **1214-39-7**

Molecular Weight: 225.25

Beilstein: 19406

EC Number: **214-927-5**

MDL number: **MFCD00005572**

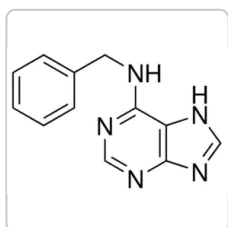
PubChem Substance ID: **24891717**

NACRES: NA.72

SKU	Pack Size	Availability	Price	Quantity	
B3408-100MG	100 MG	✓ Only 1 left in stock (more on the way) <a href="#">Details...</a>	€12.00	<a href="#">-</a>	<a href="#">+</a> <a href="#">i</a>
B3408-500MG	500 MG	✓ Only 3 left in stock (more on the way) <a href="#">Details...</a>	€34.00	<a href="#">-</a>	<a href="#">+</a> <a href="#">i</a>
B3408-1G	1 G	✓ Available to ship on October 10, 2022 <a href="#">Details...</a>	€46.50	<a href="#">-</a>	<a href="#">+</a> <a href="#">i</a>
B3408-5G	5 G	✓ Only 1 left in stock (more on the way) <a href="#">Details...</a>	€194.00	<a href="#">-</a>	<a href="#">+</a> <a href="#">i</a>
B3408-25G	25 G	✓ Only 1 left in stock (more on the way) <a href="#">Details...</a>	€700.00	<a href="#">-</a>	<a href="#">+</a> <a href="#">i</a>

[Request a Bulk Order](#)[Add to Cart](#)

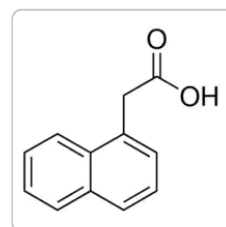
## RECOMMENDED PRODUCTS



Sigma-Aldrich

**B3274****6-Benzylaminopurine solution**

1 mg/mL, suitable for plant cell culture

[View Price and Availability](#)

Sigma-Aldrich

**N0640****1-Naphthaleneacetic acid**

BioReagent, suitable for plant cell culture, ≥95%, crystalline

[View Price and Availability](#)

## PROPERTIES

form	powder
------	--------

Quality Level	200
---------------	-----

technique(s)	cell culture   plant: suitable
--------------	--------------------------------

application(s)	agriculture
----------------	-------------

SMILES string

C(Nc1ncnc2nc[nH]c12)c3ccccc3

InChI

1S/C12H11N5/c1-2-4-9(5-3-1)6-13-11-10-12(15-7-14-10)17-8-16-11/h1-5,7-8H,6H2,(H2,13,14,15,16,17)

InChI key

NWBJYWHLCVSVIJ-UHFFFAOYSA-N

Looking for similar products? Visit [Product Comparison Guide](#)

## Related Categories

[Plant Culture Media](#)[Plant Culture Reagents](#)

## DESCRIPTION

### General description

6-Benzylaminopurine is a plant growth regulator that belongs to the class of first generation synthetic cytokinin used in agriculture.

### Application

6-Benzylaminopurine has been used:

- to induce sprouting in plant materials
- in seed germination medium for culturing of seeds
- to modify Murashige and Skoog (MS) media for shoot initiation

6-Benzylaminopurine, benzyl adenine (BAP) is a synthetic cytokinin which together with auxins elicits plant growth and development responses. BAP is a widely use cytokinin supplement to plant growth media such as Murashige and Skoog medium, Gamborg's medium, and Chu's N6 medium.

## Packaging

100, 500 mg in poly bottle

1, 5, 25 g in poly bottle

## Biochem/physiol Actions

BAP is an inhibitor of respiratory kinase in plants, and increases post-harvest life of green vegetables.

---

## SAFETY INFORMATION

### Pictograms



**GHS07,GHS08,GHS09**

### Signal Word

Warning

### Hazard Statements

**H302 - H361fd - H410**

### Precautionary Statements

**P201 - P202 - P264 - P273 - P301 + P312 - P308 + P313**

### Hazard Classifications

Acute Tox. 4 Oral - Aquatic  
Acute 1 - Aquatic Chronic 2 -  
Repr. 2

### Storage Class Code

11 - Combustible Solids

### WGK

WGK 3

### Flash Point(F)

Not applicable

### Flash Point(C)

Not applicable

### Personal Protective Equipment

dust mask type N95 (US),

**Eyeshields, Gloves**

---

## DOCUMENTATION

### Certificate of Analysis

Enter Lot Number to search for Certificate of Analysis (COA).

Lot Number

e.g. 023J5431

#### How to enter Lot Number (COA)

Search

### Certificate of Origin

Enter Lot Number to search for Certificate of Origin (COO).

Lot Number

e.g. 023J5431

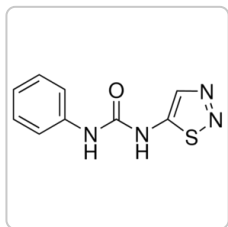
#### How to enter Lot Number (COO)

Search

### More Documents

[FT-IR Condensed Phase](#)[Spectra - ATR-IR](#)[Spectra for FT-IR Raman](#)[Structure Search](#)[SDS](#)

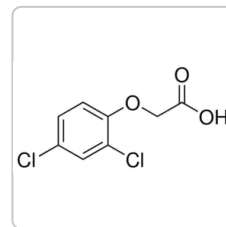
## CUSTOMERS ALSO VIEWED



Sigma-Aldrich

**P6186****Thidiazuron**

suitable for plant cell culture, BioReagent

[View Price and Availability](#)

Sigma-Aldrich

**D7299****2,4-Dichlorophenoxyacetic acid**

≥95%, crystalline

[View Price and Availability](#)

## FREQUENTLY ASKED QUESTIONS

**Which document(s) contains shelf-life or expiration date information for a given product?**

If available for a given product, the recommended re-test date or the expiration date can be found on the Certificate of Analysis.

**How do I get lot-specific information or a Certificate of Analysis?**

The lot specific COA document can be found by entering the lot number above under the "Documents" section.

### What is the shelf-life of Product B3408, 6-Benzylaminopurine?

This product does not have any official shelf-life or expiration dating associated with it. The only date shown on the certificate of analysis will be the QC Release date. For customers whose systems require formal date management, use of a date one year from shipment is supported by our terms and conditions of supply.

### What is Product B3408, 6-Benzylaminopurine, soluble in?

This product is soluble at in glacial acetic acid (50 mg/mL) with the possibility of heating being required. It is also soluble in 1 M NaOH. The product can also be dissolved in 0.1M HCl.

### How do I find price and availability?

There are several ways to find pricing and availability for our products. Once you log onto our website, you will find the price and availability displayed on the product detail page. You can contact any of our Customer Sales and Service offices to receive a quote. USA customers: 1-800-325-3010 or view [local office numbers](#).

### What is the Department of Transportation shipping information for this product?

Transportation information can be found in Section 14 of the product's (M)SDS. To access the shipping information for this material, use the link on the product detail page for the product.

### My question is not addressed here, how can I contact Technical Service for assistance?

Ask a Scientist [here](#).

---

## PEER REVIEWED PAPERS

### Callus induction and organogenesis in soybean [Glycine max (L.) Merr.] cv. Pyramid from mature cotyledons and embryos

Joyner E Y, et al.

*The Open Plant Science Journal*, 4(1) (2010)

---

### In vitro propagation of `Guayabo del pais?(Acacia sellowiana (Berg.) Burret)

Ross S and Grasso R

*Fruit, Vegetable and Cereal Science and Biotechnology, 4(special issue 1), 83-87 (2010)*

## In vitro plant regeneration from commercial cultivars of soybean

**Raza G, et al.**

*BioMed Research International, 2017 (2017)*

## Establishment of analytical method for 6-benzylaminopurine residue, a plant growth regulator for brown rice, mandarin, pepper, potato, and soybean by using GC/NPD

**Lee SM, et al.**

*Journal of the Korean Society for Applied Biological Chemistry, 57(1), 83-89 (2014)*

## CRISPR-Cas9-Mediated Mutagenesis of the Rubisco Small Subunit Family in *Nicotiana tabacum*.

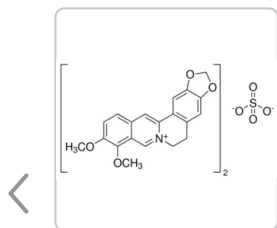
**Sophie Donovan et al.**

*Frontiers in genome editing, 2, 605614-605614 (2021-10-30)*

Engineering the small subunit of the key CO<sub>2</sub>-fixing enzyme Rubisco (SSU, encoded by *rbcS*) in plants currently poses a significant challenge, as many plants have polyploid genomes and SSUs are encoded by large multigene families. Here, we used CRISPR-Cas9-mediated genome

[View All Related Papers](#)

## RECENTLY VIEWED PRODUCTS

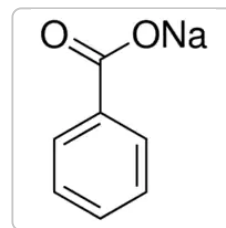


Sigma-Aldrich

**B3412**

**Berberine hemisulfate salt**

≥95%



Sigma-Aldrich

**B3420**

**Sodium benzoate**

BioXtra, ≥99.5%



[View Price and Availability](#)[View Price and Availability](#)

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## Reviews

[Be the first to review this product](#)

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## Questions

[Be the first to ask a question](#)

## TECHNICAL SERVICE

Our team of scientists has experience in all areas of research including Life Science, Material Science, Chemical Synthesis, Chromatography, Analytical and many others.

[Contact Technical Service](#)

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